What is claimed is:

1. A method for changing a rotational speed of an optical drive comprising:

detecting a reading speed for a software processing data from a disc in the optical drive;

determining whether the reading speed corresponding to a rotational speed of the optical drive exceeds a critical speed, wherein the critical speed is less than the lowest rotational speed of the optical drive to process a read command and exceeding a reading speed for the optical drive to process a play command; and

changing the rotational speed of the optical drive according to the determined result of the reading speed and the critical speed.

2. The method as claimed in claim 1, wherein the changing step comprises:

when the reading speed corresponding to the rotational speed of the optical drive exceeds the critical speed, changing the rotational speed of the optical drive to a high speed; and

when the reading speed corresponding to a rotational speed of the optical drive is less than the critical speed, changing the rotational speed of the optical drive to a low speed.

3. The method as claimed in claim 1, wherein the determining step further comprises:

calculating a number of frames read in a predetermined period; and

according to the amount, calculating the relationship between the reading speed and the rotational speed of the optical drive.

4. The method as claimed in claim 3, wherein when the number of frames is 75 and the predetermined period is 1 second, the reading speed is equal to 1 times the rotational speed of the CD ROM drive.

5. The method as claimed in claim 3 further comprising:

determining whether the two continuous frames comprise two continuous data according to addresses of the optical drive where the frame read the data;

when the continuous frames do not comprise continuous data, resetting the number of frames read and the predetermined period.

6. The method as claimed in claim 2, wherein when the optical drive reads an audio disc, the high speed is 10~24 X CAV (Constant Angular Velocity) wherein the rotational speed on the maximum circle of the optical drive is 24X CAV and on the minimum circle of the optical drive is 10X CAV and the low speed is 2~5 X CAV wherein the rotational speed on the maximum circle of the optical drive is 5X CAV and on the minimum circle of the optical drive is 2X CAV.

7. The method as claimed in claim 2, wherein when the optical drive reads a video compact disc, the high speed is

10~24 X CAV wherein the rotational speed on the maximum circle of the optical drive is 24X CAV and on the minimum circle of the optical drive is 10X CAV and the low speed is 2~5 X CAV wherein the rotational speed on the maximum circle of the optical drive is 5X CAV and on the minimum circle of the optical drive is 2X CAV.

8. The method as claimed in claim 1, wherein the reading speed for the optical drive to process the play command is 1X.

9. The method as claimed in claim 1, wherein the lowest rotational speed of the optical drive to process the read command is 2X.

10. A optical drive with switchable rotational speeds, the optical drive controlled by a software, comprising:

a read module for reading a disk;

an motor module loaded with the disc for rotating the disk at a rotational speed; and

a control module coupled to the motor module for detecting a reading speed for the software processing data from the disc, determining whether the reading speed corresponding to a rotational speed of the optical drive exceeds a critical speed and changing the rotational speed of the optical drive according to the determined result of the reading speed and the critical speed;

wherein the critical speed is less than the lowest rotational speed of the optical drive to process a

read command and exceeding a reading speed for the optical drive to process a play command.

11. The optical driver as claimed in claim 10, wherein when the reading speed corresponding to the rotational speed of the optical drive exceeds the critical speed, the control module changes the rotational speed of the optical drive to a high speed and when the reading speed corresponding to the rotational speed of the optical drive is less than the critical speed, the control module changes the rotational speed of the optical drive to a low speed.

12. The optical driver as claimed in claim 10, wherein when the optical drive reads an audio disc, the high speed is 10~24 X CAV (Constant Angular Velocity) wherein the rotational speed on the maximum circle of the optical drive is 24X CAV and on the minimum circle of the optical drive is 10X CAV and the low speed is 2~5 X CAV wherein the rotational speed on the maximum circle of the optical drive is 5X CAV and on the minimum circle of the optical drive is 2X CAV.

13. The optical driver as claimed in claim 10, wherein when the optical drive reads a video compact disc, the high speed is 10~24 X CAV wherein the rotational speed on the maximum circle of the optical drive is 24X CAV and on the minimum circle of the optical drive is 10X CAV and the low speed is 2~5 X CAV wherein the rotational speed on the maximum circle of the optical drive is 5X CAV and on the minimum circle of the optical drive is 2X CAV.

14. The optical driver as claimed in claim 10 wherein the reading speed for the optical drive to process the play command is 1X.

15. The optical driver as claimed in claim 10 wherein the lowest rotational speed of the optical drive to process the read command is 2X.